

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/672,450	09/26/2003	Hee II Wang	2080-3-183 8445	
75	90 02/10/2006	EXAMINER		
JONATHAN '	Y. KANG, ESQ.	MARC, MCDIEUNEL		
LEE, HONG, D	EGERMAN, KANG & S	CHMADEKA		
14th Floor		ART UNIT	PAPER NUMBER	
801 S. Figueroa St.			3661	
Los Angeles, C	A 90017	DATE MAILED: 02/10/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		A	oplication No.	Applicant(s)		
Office Action Summary			0/672,450	WANG, HEE IL		
			caminer	Art Unit		
		Me	cDieunel Marc	3661		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE   - External after   - If the   - If NC   - Failu   Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) or period for reply is specified above, the maximum stature to reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a) ication. days, a reply with tory period will ap	In no event, however, may a reply be time in the statutory minimum of thirty (30) days toply and will expire SIX (6) MONTHS from the state application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status						
1)⊠	Responsive to communication(s) filed	on <i>11/07/20</i>	05.			
			ion is non-final.			
3)□	<u> </u>					
Dispositi	on of Claims					
<ul> <li>4)  Claim(s) 1-21 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5)  Claim(s) 11-21 is/are allowed.</li> <li>6)  Claim(s) 1-3 is/are rejected.</li> <li>7)  Claim(s) 4-10 is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or election requirement.</li> </ul>						
Applicati	on Papers					
10)⊠	The specification is objected to by the E The drawing(s) filed on <u>26 September and</u> Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to be	2 <u>003</u> is/are: on to the draw se correction i	ving(s) be held in abeyance. See s required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	inder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment	• •					
2)  Notice 3)  Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC nation Disclosure Statement(s) (PTO-1449 or PT 'No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

Application/Control Number: 10/672,450 Page 2

Art Unit: 3661

## **DETAILED ACTION**

1. Claims 1-21 are pending for examination.

2. The rejection to claims 1-3 under 35 U.S.C. 102(b) as being anticipated by Han (U.S.

Pat. No. 5,646,494) is **maintained**.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by **Han** (U.S. Pat. No. **5,646,494**).

As per claim 1, <u>Han</u> teaches a robot cleaner having method for compensating a rotational position error (see col. 12, lines 22-26) of a robot cleaner (see fig. 4) comprising: detecting an offset value of a sensor for detecting a rotational speed of a robot cleaner (see col. 10, lines 40-44); compensating the detected offset value (see col. 7, lines 7-12); and correcting a rotational position of the robot cleaner on the basis of the compensated offset value (see col. 2, lines 42-44).

Application/Control Number: 10/672,450

Art Unit: 3661

Page 3

As per claims 2-3, <u>Han</u> teaches a robot cleaner, wherein the sensor is a gyro sensor (see col. 7, lines 7-19); in the step of detecting an offset value, an offset value of the sensor is detected whenever the robot cleaner temporarily stops (see col. 10, lines 60-64, wherein the stop being considered as a temporary stop).

## Allowable Subject Matter

- 5. Claims 11-21 are allowed.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fail to teach of fairly suggest a method that further includes the step of obtaining an average value of the detected offset values and a standard deviation; averaging the noise-removed offset value on the basis of the average value and the standard deviation; determining the averaged offset value as a new gyro offset value in combination with other element of the claimed invention.

- 7. Claims 4-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fail to teach of fairly suggest a claim 4, averaging the noise-removed offset value on the basis of the average value and the standard

Application/Control Number: 10/672,450

Art Unit: 3661

deviation; and determining the averaged offset value as a new offset value.; with respect to claim 8, calculating the amount of rotation of the robot cleaner by accumulatively adding the calculated angular velocities; and subtracting the calculated amount of rotation from the previous amount of rotation, and compensating the subtracted amount of rotation; with respect to claim 9, averaging the average value and the standard deviation, and determining the averaged offset value as a new offset value; with respect to claim 10, calculating the amount of rotation of the robot cleaner by accumulatively adding the calculated angular velocities; and subtracting the calculated amount of rotation from the previous amount of rotation, and compensating the subtracted amount of rotation, in combination with other element of the claimed invention.

As to the reference not teaching any detection of offset value (see Han's col. 10, lines 40-44).

As to the reference not teaching how the sensor perform the position correction (see col. 2, lines 42-44).

As to the reference not teaching an offset value of any sensor is detected (see col. 10, lines 60-64, wherein the stop being considered as a temporary stop).

Bear in mind that the office personnel are to give claims their broadest reasonable interpretation in light of the supporting disclosure. *In re Morris*, 127 F.3d 1048, 1054-55, 44 USPQ2d 1023, 1027-28 (Fed. Cir. 1997). Limitations appearing in the specification but not recited in the claim are not read into the claim. In re Prater, 415 F.2d 1393, 1404-05, 162 USPQ 541, 550-551 (CCPA 1969). See also *In re Zletz*, 893 F.2d 319, 321-22, 13 USPQ2d 1320, 1322 (Fed. Cir. 1989) ("During patent examination the pending claims must be interpreted as broadly as their terms reasonably allow.... The reason is simply that during patent prosecution when

Application/Control Number: 10/672,450

Art Unit: 3661

claims can be amended, ambiguities should be recognized, scope and breadth of language explored, and clarification imposed.... An essential purpose of patent examination is to fashion claims that are precise, clear, correct, and unambiguous. Only in this way can uncertainties of claim scope be removed, as much as possible, during the administrative process.").

Page 5

- 9. Applicant's arguments filed 11/07/2005 have been fully considered but they are not persuasive.
- 10. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 3661

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to McDieunel Marc whose telephone number is (571) 272-6964. The examiner can normally be reached on 6:30-5:00 Mon-Thu.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

McDieunel Marc Examiner Art Unit 3661

Tuesday, January 31, 2006

MM/

WIND PATENT EXAMINE GROUP 3000